

**LIGHT EMITTING DEVICE AND DISPLAY DEVICE****Patent number:** EP0936682**Publication date:** 1999-08-18**Inventor:** SHIMIZU YOSHINORI (JP); SAKANO KENSHO (JP); MORIGUCHI TOSHIRO (JP); NOGUCHI YASUNOBU (JP)**Applicant:** NICHIA KAGAKU KOGYO KK (JP)**Classification:**- **International:** H01L33/00- **european:** H01L33/00B3B**Application number:** EP19970933047 19970729**Priority number(s):** WO1997JP02610 19970729; JP19960198585  
19960729; JP19960244339 19960917; JP19960245381  
19960918; JP19960359004 19961227; JP19970081010  
19970331**Also published as:**

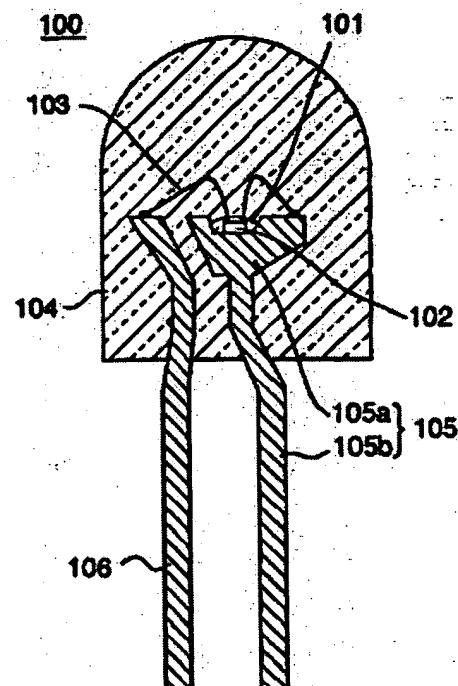
- WO9805078 (A1)
- US5998925 (A1)
- JP2000208815 (A)
- EP0936682 (A4)
- EP0936682 (B1)

[more >>](#)**Cited documents:**

- US5202777
- US3819974
- WO9750132

**Abstract of EP0936682**

The white light emitting diode comprising a light emitting component using a semiconductor as a light emitting layer and a phosphor which absorbs a part of light emitted by the light emitting component and emits light of wavelength different from that of the absorbed light; wherein the light emitting layer of the light emitting component is a nitride compound semiconductor and the phosphor contains garnet fluorescent material activated with cerium which contains at least one element selected from the group consisting of Y, Lu, Sc, La, Gd and Sm, and at least one element selected from the group consisting of Al, Ga and In and, and is subject to less deterioration of emission characteristic even when used with high luminance for a long period of time.

**Fig. 1**


---

Data supplied from the esp@cenet database - Worldwide

**BEST AVAILABLE COPY**